

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Keizo HIRAKU et al.

Application No.: New U.S. Application

Filed: March 11, 2004

Docket No.: 119064

For: INTAKE AIR AMOUNT CONTROL APPARATUS AND METHOD OF INTERNAL
COMBUSTION ENGINE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of the non-English language references 5-8 is discussed in the present specification.
- ☒ 3. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 C.F.R. §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached.
- ☒ 4. A concise explanation of the relevance of the non-English language references 5-8 appears in the Appendix attached hereto.
- ☒ 5. English-language Abstracts of the non-English language references 3-8 are attached hereto.



6. A computer-generated English translation of the following Japanese Patent Publication has been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and is attached, but has not been reviewed for accuracy. See Reference 3-8.

Respectfully submitted,



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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 119064		APPLICATION NO. New U.S. Application	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Keizo HIRAKU et al.			
				FILING DATE March 11, 2004		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1.	6,318,313	11/20/2001	MORIYA et al.			
	2.	6,425,357	7/30/2002	SHIMIZU et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	3.	JP A 2000-73799 w/abstract & transl.	3/7/2000	JAPAN			
	4.	JP A 2001-200737 w/abstract & transl.	7/27/2001	JAPAN			
	5.	JP A 2001-65374 w/abstract & transl.	3/13/2001	JAPAN			
	6.	JP A 2001-65376 w/abstract & transl.	3/13/2001	JAPAN			
	7.	JP A 10-184406 w/abstract & transl.	7/14/1998	JAPAN			
	8.	JP A 2001-263015 w/abstract & transl.	9/26/2001	JAPAN			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: March 11, 2004

Appendix

(3) Concise Explanation of Relevance of

Japanese Patent Application Laid Open NO. 2001-065374:

This reference describes such a technique that the opening and closing timing of the intake valve is set to the most retarded or delayed time when a water thermometer has a failure. This is described in the specification of the present application.

This reference was found as a result of search conducted by the applicant and/or assignee of the present application.

(4) Concise Explanation of Relevance of

Japanese Patent Application Laid Open NO. 2001-065376:

This reference describes such a technique is that the opening and closing timing of the intake valve out of the constituent elements of the opening/closing characteristics is fixed to the most retarded or delayed time when an opening measurement sensor (e.g. a throttle position sensor) in the opening control mechanism of a throttle valve has a failure. This is described in the specification of the present application.

This reference was found as a result of search conducted by the applicant and/or assignee of the present application.

(5) Concise Explanation of Relevance of

Japanese Patent Application Laid Open NO. Hei10-184406:

This reference describes such a technique that the operating angle out of the opening/closing characteristics of the intake valve is fixed to the largest side in the internal combustion engine for

controlling the intake air amount by adjusting the opening/closing characteristics of the intake valve and by the opening control mechanism of a throttle valve (e.g. an electronic control throttle valve), as the fail-safe processing upon the failure or malfunction of the opening control mechanism of a throttle valve. This is described in the specification of the present application.

This reference was found as a result of search conducted by the applicant and/or assignee of the present application.

(6) Concise Explanation of Relevance of

Japanese Patent Application Laid Open NO. 2001-263015:

This reference describes an operating angle change mechanism, which is one of the opening/closing characteristics. It is possible to exemplify a mechanism for continuously changing the operating angle of the intake valve and the lift amount by using a rotating cam. This is described in the specification of the present application.

This reference was found as a result of search conducted by the applicant and/or assignee of the present application.